

# SAFETY DATA SHEET



## PE876

Version 3.0  
Document no. 130000151051

Revision Date 2023/06/08  
Issue Date 2023/07/14

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

### Section 1 - Chemical and Enterprise Identification

**Product name** : PE876

**Product name in English** : PE876

**Other names** : PE876 INTEXAR™

#### Recommended use of the chemical and restriction on use

**Recommended use** : For industrial use only.  
Paste for electronic industry

**Restrictions on use** : Do not use product for anything outside of the above specified uses.

#### Manufacturer, importer, supplier

**Company** : Celanese (Shanghai) International Trading Co., Ltd  
**Street address** : 4560 Jinke Road, Zhangjiang, Pudong Shanghai, China 201210

**E-mail address** : HazCom@celanese.com

**Emergency telephone number** : CHEMTREC International: +1-703-527 3887, +86 532 8388-9090 (China, 24h)

**Date of first preparation** : 2018/12/26

### Section 2 - Hazard Identification

#### GHS Hazard Category

**Serious eye damage/eye irritation** : Category 2A

**Short-term (acute) aquatic hazard** : Category 1

**Long-term (chronic) aquatic hazard** : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

#### Label content

**Pictogram** :



**Signal word** : Warning

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**Hazardous warnings** : Causes serious eye irritation.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statements** : **Preventive Measures:**  
Wash skin thoroughly after handling.  
Avoid release to the environment.  
Wear eye protection/ face protection.  
**Accident Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
Collect spillage.  
**Safe Storage:** No precautionary statements are applicable for Safe Storage.  
**Waste Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Main Symptom After Contact**  
No information available.

### Section 3 - Ingredients/Composition Information

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Silver powder	7440-22-4	50 - 60%
2-(2-Ethoxyethoxy)ethyl acetate	112-15-2	20 - 30%
Triethyl Phosphate	78-40-0	1 - 10%

### Section 4 - First-aid Measures

**Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Skin contact** : Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

**Eye contact** : Immediately flush eyes for at least 15 minutes. Get medical attention.

**Ingestion** : If swallowed Rinse mouth with water. Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

**Most important symptoms/effects, acute and delayed** : No information available.

**Protection of first-aiders** : No information available.

**Notes to physician** : No information available.

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### Section 5 - Fire-fighting Measures

- Suitable extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media** : No information available.
- Specific hazards** : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.
- Special protective equipment for firefighters** : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods** : No information available.
- Further information** : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.

### Section 6 - Leak Emergency Treatment

- Protective measures, devices and emergency treatment procedure for workers** : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Methods and materials for containment and cleaning up** : Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated surface thoroughly.
- Prevention of secondary hazards** : No information available.
- Additional advice** : Dispose of in accordance with local regulations.

### Section 7 - Operation Handling and Storage

#### Operation Handling

- Technical measures/Precautions** : Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. Keep container closed when not in use. Take care to avoid waste and spillage when weighing, loading and mixing the product.

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Precautions for safe handling : Avoid formation of dust and aerosols. Keep away from heat and sources of ignition.

### Storage

Suitable storage conditions : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container.

Storage period: Stable under normal conditions.

## Section 8 - Exposure Control and Personal Protection

### Control parameters

Applicable occupational exposure limits are listed below.

Silver powder		
TWA	0.1 mg/m <sup>3</sup> (Dust and fume)	ACGIH (2013-03-01)

### Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering controls : Local exhaust or a laboratory hood should be used when handling the materials. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : Provide adequate ventilation. No personal respiratory protective equipment normally required. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.  
Persons performing maintenance or repairs on exhaust system equipment (e.g. ducts) may need to use respirators and protective clothing to prevent exposure to any accumulated residues.

Hand protection : Material: Impervious gloves  
Gloves must be inspected prior to use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., The exact break through time can be obtained from the protective glove producer and this has to be observed., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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- Eye protection : Wear safety glasses with side shields.
- Skin protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Lightweight protective clothing  
Safety shoes
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing and protective equipment before entering eating areas. Remove and wash contaminated clothing before re-use.

**Section 9 - Physical and Chemical Properties****Appearance (Physical state, form, colour, etc.)**

- Physical state : liquid  
Form : viscous liquid  
Colour : silver

**Odour** : mild ether-like

**Odour Threshold** : No information available.

**pH** : no data available Substance/mixture is non-polar/aprotic.

**Melting point/freezing point**

No information available.

**Boiling point, initial boiling point and boiling range**

No information available.

**Flash point** : 100 °C  
Method: closed cup

**Evaporation rate** : No information available.

**Flammability** : No information available.

**Upper/lower flammability or explosive limits**

- Upper explosion limit : No information available.  
Lower explosion limit : No information available.

**Vapour pressure** : No information available.

**Vapour density** : No information available.

**Density**

Density : 2.15 g/cm<sup>3</sup>

**Solubility(ies)**

Water solubility : insoluble

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### Particle characteristics

Assessment : No information available.

### Partition coefficient: n-octanol/water

: No information available.

### Auto-ignition temperature

No information available.

### Decomposition temperature

: No information available.

### Viscosity

Viscosity, kinematic : No information available.

### Molecular weight

: No information available.

### Oxidizing properties

: No information available.

## Section 10 - Stability and Reactivity

**Reactivity** : No information available.

**Chemical stability** : Stable at normal temperatures and storage conditions.

**Possibility of hazardous reactions** : Polymerization will not occur.

**Conditions to avoid** : None reasonably foreseeable.

**Materials to avoid** : Acids, bases and strong oxidizing agents

**Hazardous decomposition products** : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)., Carbonyl fluoride, Hydrogen fluoride, Fluorinated hydrocarbons, Fluorinated olefins, metal oxides

## Section 11 - Toxicological Information

### Acute toxicity

#### Oral

Silver powder : LD50/Rat: > 2,000 mg/kg  
Method: OECD Test Guideline 401  
The substance or mixture has no acute oral toxicity

2-(2-Ethoxyethoxy)ethyl acetate : LD50/Rat: 11,000 mg/kg  
The substance or mixture has no acute oral toxicity

Triethyl Phosphate : LD50/Rat: 1,165 mg/kg  
Target Organs: Central nervous system  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.  
Central nervous system effects

#### Inhalation

Silver powder : LC50/4 h/Rat(dust/mist): > 5.16 mg/l

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	Method: OECD Test Guideline 436
	The substance or mixture has no acute inhalation toxicity
2-(2-Ethoxyethoxy)ethyl acetate	: The substance or mixture has no acute inhalation toxicity
	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Triethyl Phosphate	: LC50/4 h/Rat(dust/mist): > 8.817 mg/l
	The substance or mixture has no acute inhalation toxicity
<b>Dermal</b>	
Silver powder	: LD50/Rat: > 2,000 mg/kg
	Method: OECD Test Guideline 402
	The substance or mixture has no acute dermal toxicity
2-(2-Ethoxyethoxy)ethyl acetate	: LD50/Rabbit: 15,300 mg/kg
	The substance or mixture has no acute dermal toxicity
Triethyl Phosphate	: LD50/Rabbit: > 20,000 mg/kg
	The substance or mixture has no acute dermal toxicity
<b>Skin corrosion/irritation</b>	
Silver powder	: Species: Rabbit
	Result: Slight or no skin irritation
	Classification: No skin irritation
	Method: OECD Test Guideline 404
	Minimal effects that do not meet the threshold for classification.
2-(2-Ethoxyethoxy)ethyl acetate	: Species: Rabbit
	Result: No skin irritation
	Classification: No skin irritation
	Method: OECD Test Guideline 404
	Minimal effects that do not meet the threshold for classification.
Triethyl Phosphate	: Species: Rabbit
	Result: No skin irritation
	Classification: Not classified as irritant
	Method: OECD Test Guideline 404
<b>Serious eye damage/eye irritation</b>	
Silver powder	: Species: Rabbit
	Result: No eye irritation
	Classification: No eye irritation
	Method: OECD Test Guideline 405
2-(2-Ethoxyethoxy)ethyl acetate	: Species: Rabbit
	Result: Irritation to eyes, reversing within 7 days
	Classification: Mild eye irritation
Triethyl Phosphate	: Species: Rabbit
	Result: Eye irritation
	Classification: Irritating to eyes.
	Method: OECD Test Guideline 405
<b>Respiratory or skin sensitisation</b>	
Silver powder	: Species: Guinea pig
	Result: Does not cause skin sensitisation.
	Classification: Does not cause skin sensitisation.
	Method: US EPA Test Guideline OPPTS 870.2600
	Information given is based on data obtained from similar substances.
2-(2-Ethoxyethoxy)ethyl acetate	: Species: Guinea pig
	Result: Does not cause skin sensitisation.

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Triethyl Phosphate : Classification: Does not cause skin sensitisation.  
 Method: OECD Test Guideline 406  
 : Species: Mouse  
 Result: Does not cause skin sensitisation.  
 Classification: Does not cause skin sensitisation.  
 Method: OECD Test Guideline 429

**Germ cell mutagenicity**

Silver powder : Weight of evidence does not support classification as a germ cell mutagen. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Genetic damage in animals was observed in some laboratory tests but not in others. Information given is based on data obtained from similar substances.

2-(2-Ethoxyethoxy)ethyl acetate : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Triethyl Phosphate : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

Silver powder : Reproductive toxicity: No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.  
 Teratogenicity: Animal testing showed no developmental toxicity.

2-(2-Ethoxyethoxy)ethyl acetate : Reproductive toxicity: No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.  
 No effects on or via lactation  
 Information given is based on data obtained from similar substances.  
 Teratogenicity: Animal testing showed no developmental toxicity.  
 Information given is based on data obtained from similar substances.

Triethyl Phosphate : Reproductive toxicity: No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.  
 Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

**Specific Target Organ Toxicity**

Specific target organ toxicity - single exposure

Silver powder : The substance or mixture is not classified as specific target organ toxicant, single exposure.

2-(2-Ethoxyethoxy)ethyl acetate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Triethyl Phosphate : Target Organs: Central nervous system  
 The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Specific target organ toxicity - repeated exposure

Silver powder : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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2-(2-Ethoxyethoxy)ethyl acetate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Triethyl Phosphate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration hazard

Silver powder : No aspiration toxicity classification

2-(2-Ethoxyethoxy)ethyl acetate : No aspiration toxicity classification

### Other

Silver powder : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: 30 mg/kg  
LOAEL: 125 mg/kg  
Method: OECD Test Guideline 408  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.  
Inhalation/Rat 90 d dust/mist  
Method: OECD Test Guideline 413  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

2-(2-Ethoxyethoxy)ethyl acetate : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: 250 mg/kg  
Method: OECD Test Guideline 408  
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.  
Inhalation/Rat 28 d dust/mist  
NOAEL: 1.1 mg/l  
LOAEL: > 1.1 mg/l  
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Triethyl Phosphate : Repeated dose toxicity:  
Oral/Rat  
NOAEL: 1,000 mg/kg  
No toxicologically significant effects were found.

## Section 12 - Ecological Information

### Ecotoxicity effects

Acute and prolonged toxicity to fish

Silver powder : LC50/96 h/Pimephales promelas (fathead minnow): 0.016 mg/l  
Information given is based on data obtained from similar substances.

2-(2-Ethoxyethoxy)ethyl acetate : LC50/96 h/Danio rerio (zebra fish): > 100 mg/l  
Method: OECD Test Guideline 203

Triethyl Phosphate : LC50/96 h/Leuciscus idus (Golden orfe): > 100 mg/l

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### Toxicity to aquatic plants

- Silver powder : EC50/96 h/Pseudokirchneriella subcapitata (green algae): 0.19 mg/l  
Information given is based on data obtained from similar substances.  
EC10/72 h/Pseudokirchneriella subcapitata (green algae): 0.03462 mg/l  
Information given is based on data obtained from similar substances.
- 2-(2-Ethoxyethoxy)ethyl acetate : EC50/72 h/Algae: 110.2 mg/l  
Method: OECD Test Guideline 201  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 300 mg/l  
Method: ISO 8692  
Information given is based on data obtained from similar substances.
- Triethyl Phosphate : ErC50/72 h/Desmodesmus subspicatus (green algae): 901 mg/l

### Acute toxicity to aquatic invertebrates

- Silver powder : EC50/48 h/Daphnia magna (Water flea): 0.0125 mg/l  
Information given is based on data obtained from similar substances.
- 2-(2-Ethoxyethoxy)ethyl acetate : LC50/48 h/Daphnia magna (Water flea): 143 mg/l
- Triethyl Phosphate : EC50/48 h/Daphnia magna (Water flea): > 100 mg/l  
Method: OECD Test Guideline 202

### Chronic toxicity to fish

- Silver powder : NOEC/32 d/Oncorhynchus mykiss (rainbow trout): 0.0012 mg/l  
Information given is based on data obtained from similar substances.
- 2-(2-Ethoxyethoxy)ethyl acetate : NOEC/28 d/Fish (unspecified species): 28.64 mg/l

### Chronic toxicity to aquatic Invertebrates

- Silver powder : NOEC/21 d/Daphnia magna (Water flea): 0.00327 mg/l  
Information given is based on data obtained from similar substances.
- 2-(2-Ethoxyethoxy)ethyl acetate : NOEC/21 d/Daphnia magna (Water flea): 102 mg/l
- Triethyl Phosphate : NOEC/21 d/Daphnia magna (Water flea): 31.6 mg/l  
Method: OECD Test Guideline 211

### Persistence and degradability

- Silver powder : Result: Not biodegradable  
Not applicable
- 2-(2-Ethoxyethoxy)ethyl acetate : Result: Biodegradable
- Triethyl Phosphate : Result: Biodegradable

### Bioaccumulation

- Silver powder : Bioaccumulation is unlikely. Information given is based on data obtained from similar substances.
- 2-(2-Ethoxyethoxy)ethyl acetate : Bioaccumulation is unlikely.

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## Section 13 - Waste Disposal

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- Waste disposal methods** : If recycling is not practicable, dispose of in compliance with local regulations. Never place unused product down any indoor or out door drain. Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.
- Contaminated packaging** : Dispose of in accordance with local regulations.

### Section 14 - Transport Information

#### China Dangerous Goods Regulation

- UN number : 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Silver)  
Class : 9  
Packing group : III

#### IMDG

- UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(银)  
(Silver)  
Transport hazard class : 9  
Packing group : III  
Marine pollutant : yes

#### IATA

- UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(银)  
(Silver)  
Transport hazard class : 9  
Packing group : III
- Matters needing attention for transportation : Not applicable

### Section 15 - Regulatory Information

Regulation on the Safety Management of Hazardous Chemicals  
Production Safety Law of the People's Republic of China  
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease  
Environmental Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution  
Marine Environment Protection Law of the People's Republic of China  
Fire Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes  
Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)  
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)

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General rule for classification and hazard communication of chemicals (GB13690)  
Lists of Dangerous Goods (GB12268)  
Dangerous goods classification (GB6944)  
Common dangerous chemical storage rules (GB15603)  
Packaging Symbols of Dangerous Goods (GB190)  
National Hazardous Waste Inventory

### Section 16 - Other Information

#### References

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Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.